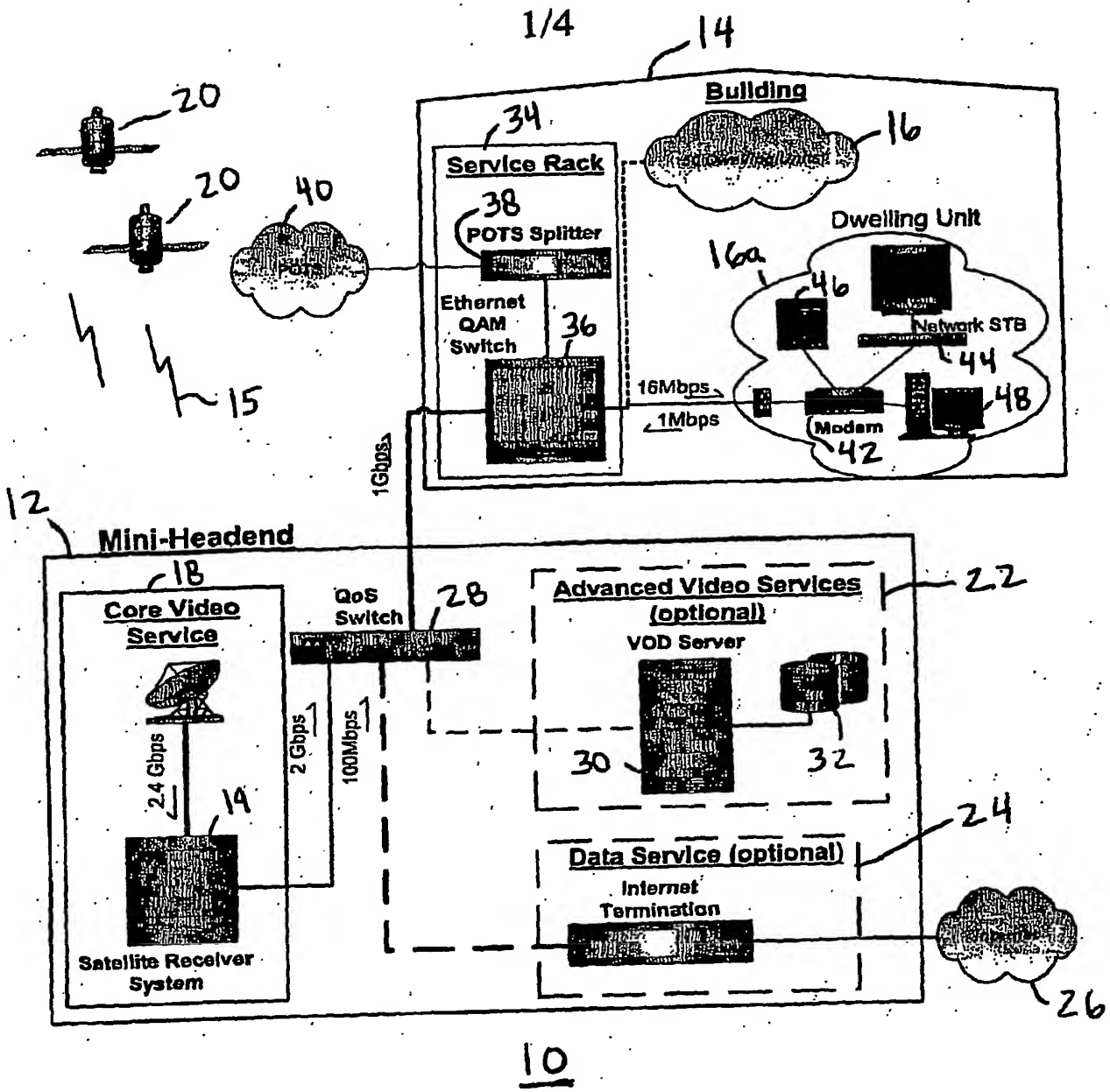
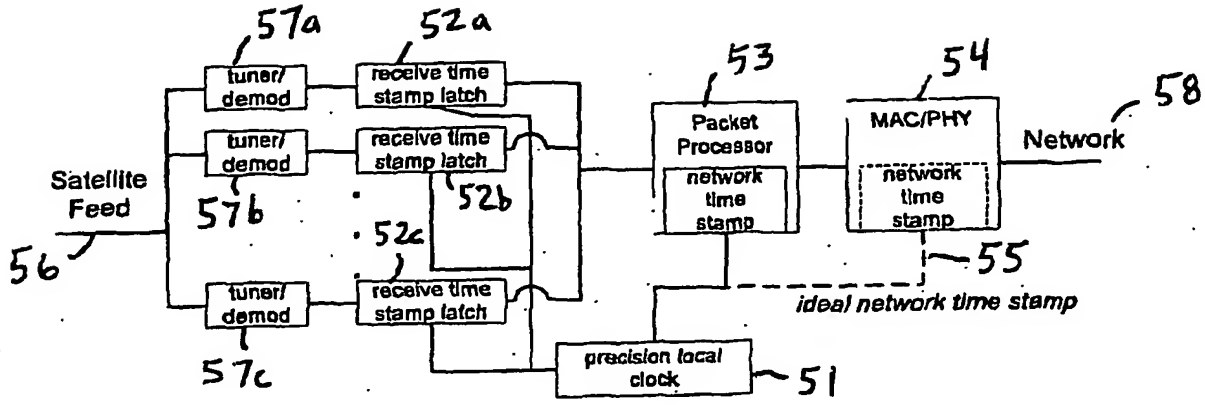

14
Building
34
Service Rack
16
38
POTS Splitter
Dwelling Unit
16a
46
Network STB
44
48
Modem
42
Ethernet
QAM
Switch
36
16Mbps
1Mbps
1Gbps
20
20
40
POTS
15
12
Mini-Headend
18
Core Video
Service
2.4 Gbps
19
Satellite Receiver
System
QoS
Switch
28
2 Gbps
100Mbps
Advanced Video Services
(optional)
22
VOD Server
30
32
24
Data Service (optional)
Internet
Termination
26
10

Fig. 1



50

Fig. 2

IP Header
UDP Header
Transport Header
NTS
SCR_N
SCR_n
$RTSL_N$
$RTSL_n$

60

Fig. 3

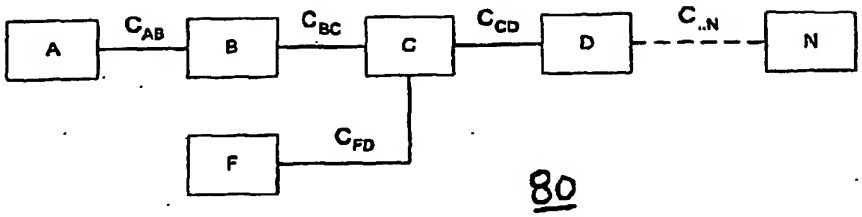


Fig. 4

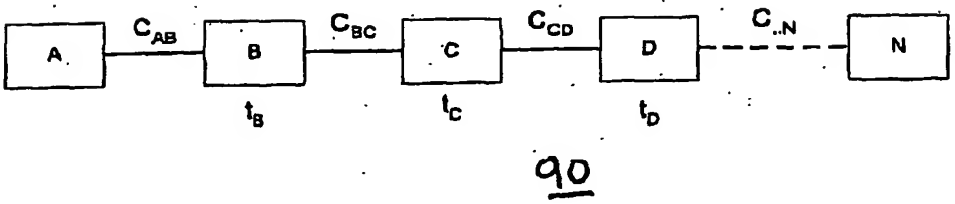


Fig. 5

ACTS
Clock Rate
Delay Ticks

100

Fig. 6

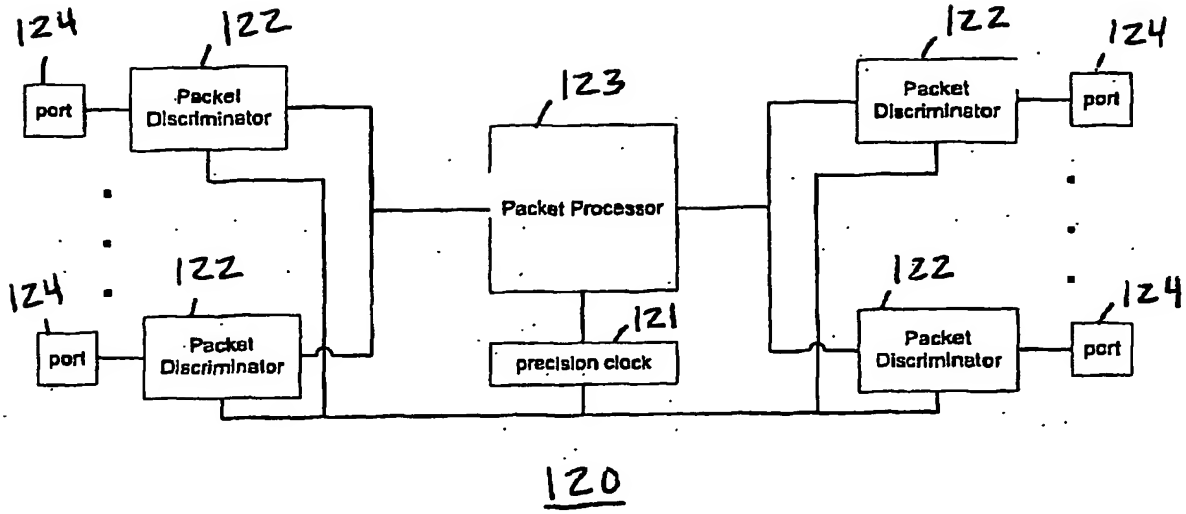

124
122
port
Packet Discriminator
123
Packet Processor
122
124
Packet Discriminator
port
124
122
port
Packet Discriminator
121
precision clock
122
124
Packet Discriminator
port
120

Fig. 7

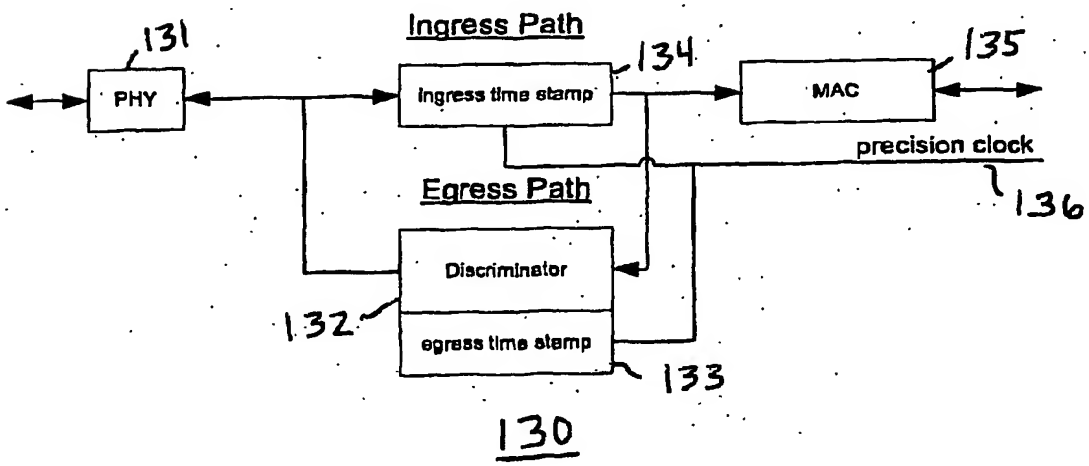

131
PHY
Ingress Path
134
Ingress time stamp
135
MAC
precision clock
136
Egress Path
Discriminator
132
egress time stamp
133
130

Fig. 8